

TABLE OF CONTENTS

Recent Physical Review Letters on the Physics of Burning Deuterium-Tritium Plasmas in the Tokamak Fusion Test Reactor

Fisch, N.J., and J-M. Rax

Interaction of Energetic Alpha Particles with Intense Lower Hybrid Waves
Phys. Rev. Lett. **69**, 612 (July 27, 1992).

**Y. Nagayama, S. A.Sabbagh

Observation of ballooning Physical modes in high-temperature tokamak plasmas
Phys. Rev. Lett. October 19, 1992

Arunasalam, V., and G.J. Greene

Thermally Excited Proton Spin-Flip Laser Emission in Tokamaks
Phys. Rev. Lett. **71**, 3119 (Nov 8, 1993).

Majeski, R., C.K. Phillips, and J.R. Wilson

Electron Heating and Current Drive by Mode Converted Slow Waves
Phys. Rev. Lett. **73**, 2204 (Oct 17, 1994).

Hsu, C.T., C.Z. Cheng, P. Helander, et al.

Particle Dynamics in Chirped-Frequency Fluctuations
Phys. Rev. Lett. **72**, 2503 (April 19, 1994).

Levinton, F.M., L. Zakharov, S.H. Batha, et al.

Stabilization and Onset of Sawteeth in TFTR
Phys. Rev. Lett. **72**, 2895 (May 2, 1994).

Strachan, J.D., H. Adler, P. Alling,et al.

Fusion Power Production from TFTR Plasmas Fueled with Deuterium and Tritium
Phys. Rev. Lett. **72**, 3526 (1994).

Hawryluk, R.J., H. Adler, P. Alling, et al.

Confinement and Heating of a Deuterium-Tritium Plasma
Phys. Rev. Lett. **72**, 3530, (May 30, 1994).

Valeo, E.J. and N.J. Fisch

Excitation of Large-k Ion-Bernstein Waves in Tokamaks
Phys. Rev. Lett. **73**, 3536 (Dec 26, 1994).

Fu, G.Y., and W. Park

Nonlinear Hybrid Simulation of the Toroidicity-Induced Alven Eigenmode
Phys. Rev. Lett. **74**, 1594 (Feb 27, 1995).

Chang. Z., J.D. Callen, E.D. Fredrickson, et al.

Observation of Nonlinear Neoclassical Pressure-Gradient-Driven Tearing Modes on TFTR
Phys. Rev. Lett. **74**, 4663 (June 5, 1995).

Efthimion, P., L.C. Johnson, J.D. Strachan, et al.

Tritium Particle Transport Experiments on TFTR During D-T Operation
Phys. Rev. Lett. **75**, 85 (July 3, 1995).

Table of Contents

Recent Physical Review Letters on the Physics of Burning Deuterium-Tritium Plasmas in the Tokamak Fusion Test Reactor
continued -

Hahm, T.S., and Liu Chen

Nonlinear Saturation of Toroidal Alfvén Eigenmodes via Ion Compton Scattering
Phys. Rev. Lett. 74, 266 (Jan 9, 1995)

McKee, G., R. Fonck, B. Stratton, et al.

Confined Alpha Distribution Measurements in a Deuterium-TritiumTokamak Plasma
Phys. Rev. Lett. 75, 649 (Jul 24, 1995).

Wilson, J.R., C.E. Bush, D. Darrow, et al.

Ion Cyclotron Range of Frequency Heating of a Deuterium-Tritium Plasma via the Second-Harmonic Tritium Cyclotron Resonance
Phys. Rev. Lett. 75, 842 (July 31, 1995).

Fisher, R., J.M. McChesney, P.B. Parks, et al.

Measurements of Fast Confined Alphas on TFTR
Phys. Rev. Lett. 75, 846 (July 31, 1995).

Park, W. E. D. Fredrickson, A. Janos, et al.

High- Disruption in Tokamaks

Phys. Rev. Lett. 75, 1763 (Aug 28, 1995).

Fu, G. Y. C.Z. Cheng, R. Budny, et al.

Stability Analysis of Toroidicity-Induced Alfvén Eigenmodes in TFTR DT Experiments
Phys. Rev. Lett. 75, 2336 (Sept 18, 1995).

Synakowski, E., R.E. Bell, R.V. Budny, et al.

Measurements of the Production and Transport of Helium Ash on the TFTR Tokamak
Phys. Rev Lett. 75, 3689 (Nov 13, 1995).

Levinton, F.M., M.C. Zarnstorff, S.H. Batha, et al.

Improved Confinement with Reversed Magnetic Shear in TFTR
Phys. Rev. Lett. 75, 4417 (Dec 11, 1995).

Majeski, R., H. Rogers, S.H. Batha, et al.

Mode Conversion Heating and Current Drive Experiments in TFTR
Phys. Rev. Lett. 76, 764 (Jan 29, 1996).

Chang, Z., R.V. Budny, L.Chen, et al.

First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR DT Experiments
Phys. Rev. Lett. 76, 1071 (Feb 12, 1996).

Wong, K.L., G.L. Schmidt, S.H. Batha, et al.

First Evidence of Collective Alpha Particle Effect on TAE Modes in the TFTR DT Experiment
Phys. Rev. Lett. 76 , 2286 (March 25, 1996).

Taylor, G., J.D. Strachan, R.V. Budny, and D.R. Ernst

Fusion Heating in a Deuterium-Tritium Tokamak Plasma
Phys. Rev. Lett. 76, 2722 (April 8, 1996).

Table of Contents

Recent Physical Review Letters on the Physics of Burning Deuterium-Tritium Plasmas in the Tokamak Fusion Test Reactor
continued -

Mazzucato, E., S.H. Batha, M. Beer, et al.

Turbulent fluctuations in TFTR configurations with reversed magnetic shear

Phys. Rev. Lett. **77**, 3145 (October 7, 1996).

Chang, Z., W. Park, E.D. Fredrickson et al.

Off-axis Sawteeth and Double-tearing Reconnection in Reversed Magnetic Shear Plasmas in TFTR

Phys. Rev. Lett. **77**, 3553 (21 October, 1996).

Lin, Z., W.M. Tang, and W.W. Lee

Neoclassical Transport in Enhanced Confinement Toroidal Plasmas

Phys. Rev. Lett. **78**, 456 (Jan 20, 1997).

Synakowski, E.J., S.H. Batha,(a) M.A. Beer, et al.

The Roles of Electric Field Shear and Shafranov Shift in Sustaining High Confinement in Enhanced Reversed Shear Plasmas on the TFTR Tokamak

Phys. Rev. Lett. **78**, 2972 (April 14, 1997).

Nazikian, R., G.Y. Fu, S.H. Batha, et al.

Alpha-Particle Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor

Phys. Rev. Lett. **78**, 2976 (April 14, 1997).

Kim, J.S., R.J. Fonck, R.D. Durst, et al.

Measurements of Nonlinear Energy Transfer in Turbulence in the TFTR

Phys. Rev. Lett. **79**, 841 (August 4, 1997).

Phillips, C.K., S.D. Scott, M.G. Bell, et al.

Scaling of Confinement with Isotopic Content in Deuterium and Tritium Plasmas

Phys. Rev. Lett. **79**(6), 1050 (August 11, 1997).

*Levinton, F.M., R. Bell, S. Batha, et al. make note in PRL List

Radial Electric Field Measurements in Reversed Shear Plasmas

submitted to PRL Nov 97. per Fred 1/9/98